

RECEIVED

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JUL 10 2001

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1642

RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/617,174

TIME: 10:11:15

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

4 <110> APPLICANT: Arthur Pardee, executor for Ruth Sager, deceased
5 Zhang, Ming
7 <120> TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY SEQUENCE AND USES THEREOF
9 <130> FILE REFERENCE: 00530-079003
11 <140> CURRENT APPLICATION NUMBER: US 09/617,174
12 <141> CURRENT FILING DATE: 2000-07-17
14 <150> PRIOR APPLICATION NUMBER: US 09/155,380
15 <151> PRIOR FILING DATE: 1998-09-28
17 <150> PRIOR APPLICATION NUMBER: PCT/US97/05186
18 <151> PRIOR FILING DATE: 1997-03-28
20 <150> PRIOR APPLICATION NUMBER: US 60/014,368
21 <151> PRIOR FILING DATE: 1996-03-28
23 <160> NUMBER OF SEQ ID NOS: 20
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1141
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
32 <400> SEQUENCE: 1

ENTERED

33 agataagcac agcagagaag caaccagctc cgtttcaggt cctttcctga ggctgattcg 60
34 gctggaagg agtaggtccc accaaatgaa gaagctgtgg gaagacagga ggacaagaac 120
35 aggctccacg aagagatttc agagcagagc tgcgtactcc tttttctttt tgtttctttt 180
36 gctctgtcac ccaggctgaa gtacagtggg tagctcacgg ctcaactgcag ctttgacctc 240
37 ccaggctcaa gtgatcctct cgtctcagct ttccaagtaa ctgggaccac aggcattgat 300
38 caccacgcta ggctattgtt ttacattttt tgtagagatg gggctcacc atgttgccca 360
39 gggttggtctc aaactcctgg gctcaagcaa tccgctcacg tcaacctccc caaatgctgg 420
40 gattacagcg gtgagccacc gggccagggc tgagtaattcc taatcacagg attttaaaaa 480
41 gaaacttctc gcgccacca ttaaacaata tctcctacca atttggtagt aaatatattg 540
42 ctaatagtag ctaattttta ggtaggcact gtgtttatac atatattccat tccttctttt 600
43 ttgattgtct ttctgtttta tgggcagcta cctctcttgg catctagcag aatgagctgc 660
44 tgcagtttac acaaaaagaa tggagatcag agtacttttt gtgccaccaa cgtgtctgag 720
45 aaatttgtag tgttactatc atcacacatt acttttattt catcgaatat ttcaccttcc 780
46 ggtcctgcgt gggccgagag gattgccgta cgcattgtctg tacgtatgca tgaactcac 840
47 agcccccttc tgcgcgaaca tgttgagggc cttttggaag ctgtgcagac aacagcaact 900
48 tcagcctgaa tcattctctt caattgtgga caagctgcca agaggcttga gtaggagagg 960
49 agtgccgccc aggcggggcg gggcgggcg tggagctggg ctggcagtg ggcgtggcgg 1020
50 gctgcccagg tgagccaccg ctgcttctgc ccagacacgg tcgcctccac atccaggtct 1080
51 ttgtgctcct cgttgccctg ttcccttttc acgcattttc caggataact gtgactccag 1140
52 g 1141
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 51
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: oligonucleotide for PCR
63 <400> SEQUENCE: 2
64 tcaccagtta tcctggaaaa tgcgtggaaa aggaacaggc aagcgaggag c 51

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66 <210> SEQ ID NO: 3
67 <211> LENGTH: 20
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: oligonucleotide for PCR
74 <400> SEQUENCE: 3
75 cagcccccttc ctgcccgaac 20
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 21
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: oligonucleotide for PCR
85 <400> SEQUENCE: 4
86 gtcggggaag gacggggcctt g 21
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: oligonucleotide for PCR
96 <400> SEQUENCE: 5
97 cagcccccttt ttgcccgaac 20
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: oligonucleotide for PCR
107 <400> SEQUENCE: 6
108 gtcgggggaaa aacgggcttg 20
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 22
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: oligonucleotide for PCR
118 <400> SEQUENCE: 7
119 ccttgctcaga caggcaagtg cc 22
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 22
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: oligonucleotide for PCR
129 <400> SEQUENCE: 8
130 ggaacagtct gtccgttcac gg 22
132 <210> SEQ ID NO: 9

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133 <211> LENGTH: 19
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: oligonucleotide for PCR
140 <400> SEQUENCE: 9
141 agtactctga tctccattc 19
143 <210> SEQ ID NO: 10
144 <211> LENGTH: 19
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide for PCR
151 <400> SEQUENCE: 10
152 gaatggagat cagagtact 19
154 <210> SEQ ID NO: 11
155 <211> LENGTH: 27
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: oligonucleotide for PCR
162 <400> SEQUENCE: 11
163 ctaggctgta caggatgttc tgcctag 27
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 27
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: oligonucleotide for PCR
173 <400> SEQUENCE: 12
174 gatccgacat gtcctacaag acggatc 27
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 21
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: oligonucleotide for PCR
185 <400> SEQUENCE: 13
186 ccttgtcaga caggcaagtc c 21
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 22
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: oligonucleotide for PCR
196 <400> SEQUENCE: 14
197 ggaacagtct grccgttcac gg 22
199 <210> SEQ ID NO: 15
200 <211> LENGTH: 38

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201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: oligonucleotide for PCR
207 <400> SEQUENCE: 15
208 aactgcagtt tacacaaaaa gaatgatatc cggagtac          38
210 <210> SEQ ID NO: 16
211 <211> LENGTH: 28
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: oligonucleotide for PCR
218 <400> SEQUENCE: 16
219 ggtggtatat ccagtgattt ttttctcc          28
221 <210> SEQ ID NO: 17
222 <211> LENGTH: 25
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: oligonucleotide for PCR
229 <400> SEQUENCE: 17
230 gatccagtac tctgatctcc attcg          25
232 <210> SEQ ID NO: 18
233 <211> LENGTH: 25
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: oligonucleotide for PCR
240 <400> SEQUENCE: 18
241 gatccgaatg gagatcagag tactg          25
243 <210> SEQ ID NO: 19
244 <211> LENGTH: 15
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: consensus Sequence
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (1)...(15) /
254 <223> OTHER INFORMATION: n = A,T,C or G
256 <400> SEQUENCE: 19
W--> 257 ggtacanmnt gtyct          15
259 <210> SEQ ID NO: 20
260 <211> LENGTH: 14
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 20
265 gtactctgat ctcc          14

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/617,174

DATE: 06/14/2001

TIME: 10:11:16

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19